



# 1449-12-2L

## Product Features

1449-12-2L is a compact embedded industrial motherboard based on 11th Gen Intel Core processors, designed for industrial control, IoT gateways, HMI systems, digital signage, commercial terminals, and edge computing applications. It integrates dual Gigabit Ethernet, flexible storage options, serial communication, display output, audio, and mPCIe expansion in a compact form factor. With reliable performance, rich I/O connectivity, and long-term platform stability, it is well suited for embedded deployment in industrial and commercial systems.

## Application Scenarios



Embedded Terminal



IoT Gateway



Industrial Automation



Digital Signage

Processor	Product Collection	11th Gen Intel Core Processors
	Sockets Supported	FCBGA1449
Memory specifications	Memory Type	DDR4 SO-DIMM
	Maximum Capacity	32GB
	Maximum Frequency	3200 MT/s
Storage specifications	SATA	1*SATA 6Gb/s
	mSATA	1*mSATA
	M.2	1*M.2 Key-M 2280
Extension interface	mPCIe	1*mPCIe
Display functions	Port	1*VGA/1*HD
	Chip	Intel UHD Graphics
Backplane I/O	Ethernet	2*RJ45
	COM	1*DB9 COM RS232/RS485, 1*DB9 COM RS232
	Display	1*VGA/1*HD
	USB	2*USB-A 3.0, 2*USB-A 2.0
	Button	1*Power Button
	Audio	1*Jack Audio
	Power supply	1*Jack DC 5.5/2.5mm
Onboard I/O	SATA	1*SATA Data connector/1*SATA Power socket
	SIM	1*SIM Card slots
	Fan	1*CPU fan power socket
Power supply mode	Pins	1*F_PANEL
	DC	12V
Motherboard size	Specification	121.6*121.6 (mm)
Work Environment	Temperature	-20~55°C
	Humidity	5%~90% (Relative humidity, no condensation)



# G590-1449-2L

## Product Features

*G590-1449-2L is a compact fanless embedded industrial computer based on 11th Gen Intel Core processors, designed for industrial control, IoT gateways, HMI systems, digital signage, commercial terminals, and lightweight edge computing applications. It integrates dual Gigabit Ethernet, flexible storage options, serial communication, VGA/HD display output, and mPCIe expansion in a compact chassis. With passive cooling, reliable performance, and rich I/O connectivity, it is suitable for long-term deployment in industrial cabinets, embedded equipment, smart terminals, and edge control systems.*

## Application Scenarios



Embedded Terminal



IoT Gateway



Industrial Automation



Digital Signage

Processor	Product Collection	11th Gen Intel Core Processors		
	Sockets Supported	FCBGA1449		
	Memory Type	DDR4 SO-DIMM		
Memory specifications	Maximum Capacity	32GB		
	Maximum Frequency	3200 MT/s		
	Storage specifications	SATA	1*SATA 6Gb/s	
mSATA		1*mSATA		
M.2		1*M.2 Key-M 2280		
Network features	Ethernet	2*1GbE		
	Controller	2*Realtek RTL8111H		
Interface	Power	Jack	1*Jack DC_IN	
		Ethernet	2*RJ45	
	Front Panel	Display	1*VGA/1*HD	
		USB	2*USB-A 2.0	
		Antenna	2*Reserved	
	Back Panel	Button	1*Start or Restart	
		USB	4*USB-A 3.0	
		Serial port	2*DB9 COM	
		Audio	1*Jack Audio	
	Extension interface	mPCIe	1*mPCIe	
Cooling Method	Passive Cooling, Fanless (Need air flow)			
System Specifications	Chassis Size	178*126*56 (mm)		
	Weight	Equipment Weight 1.15 KG; Package Weight 1.85 KG (including accessories)		
Power Mode	DC	12V 7A or Higher		
Work Environment	Temperature	0~50°C		
	Humidity	5%~90% (Relative humidity, no condensation)		